State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-13-105

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

CATERPILLAR, INC

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Caterpilar, Inc. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family		Displacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
VCP403DZDAAA	6.6	(403)	Turbocharger Charge Air Cooler Smoke Puff Limiter Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake horsepower-hour:

Carbon <u>Hydrocarbons</u> <u>Monoxide</u>		Nitrogen <u>Oxides</u>	<u>Particulates</u>	
1.3	15.5	5.0	0.10	

The following are the certification exhaust emission values for this engine family in grams per brake horsepower-hour:

Engine Family	Hydrocarbons	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
VCP403DZDAAA	0.2	1.0	4.4	0.07

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this _

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16 day of December 1996.

R. B. Summerfield, Chief (/ _Mobile Source Operations Division

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Cate	rpillar Inc.		Engine Family	у		VC	P403DZDAAA	
Displacement	6.6	1		Liters	40	3	1	Cubi	ic Inches
Maximum Rated Power:	215		HP@	2600		RPM		Engine Configu	ration: 16
Ignition: Compression	X		Compr	ession with Glo	ow Plug			Spark	
Fuel Type (s): Dedicated		Flex-Fuel		Dual-Fuel		Diesel	X	M100	M85
ŧ		CNG	LNG	LPG	Oth	er (spec	ify)	****	
Diesel Cert Fuel: 13CCR 22	.82	40 CFR	86.131	3-90			40	CFR 86.1313-94	Х
Primary Intended Service C	lass:	LHD		MHD X	· _	HHD		Urban Bus	
Exhaust ECS (incl. MFI,	TC, CAC)	CAC, OC,	SPL, To	<u> </u>				•	

(Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm³/stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
3116 - 1	215 @ 2600	96 (84.3)	1018673			(1)
3116 - 2	200 @ 2600	92 (80.2)	1018673			
3116 - 3	195 @ 2600	91 (79.5)	1018673			
3116 - 4	185 @ 2600	85 (74.1)	1018673			
3116 - 5	170 @ 2600	79 (68.9)	1018673			

(1) Catalytic Converter Part Nos.

1030632	1044819	1144315	1230221
1030633	1044821	1173161	1261458
1030634	1044823	1173162	1288616
1030635	1044826	1173265	

ISSUE DATE	09 SEPT 96
REVISION NO.	
REVISION DATE	